

# CHEMISTRY EQUATIONS AND ANSWERS

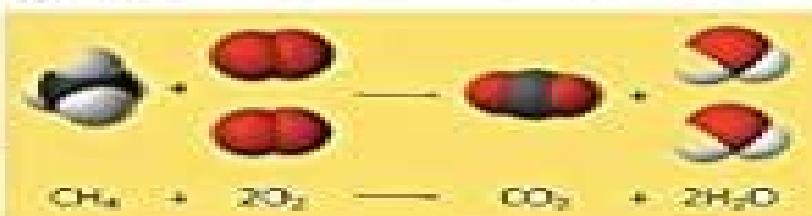
## BALANCING CHEMICAL EQUATIONS

The law of conservation of mass dictates that the quantity of each element does not change in a chemical reaction. Thus, each side of the chemical equation must represent the same quantity of any particular element. Likewise, the charge is conserved in a chemical reaction. Therefore, the same charge must be present on both sides of the balanced equation.

One balances a chemical equation by changing the scalar number for each chemical formula. Simple chemical equations can be balanced by inspection, that is, by trial-and-error. Another technique involves solving a system of linear equations.

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As seen from the equation  $\text{CH}_4 + 2\text{O}_2 \longrightarrow \text{CO}_2 + 2\text{H}_2\text{O}$ , a coefficient of 2 must be placed before the oxygen gas on the reactants side and before the water on the products side in order for, as per the law of conservation of mass, the quantity of each element does not change during the reaction.

As an example, seen in the above image, the burning of methane would be balanced by putting a coefficient of 2 before the  $\text{O}_2$ .



Since there is one carbon on each side of the arrow, the first atom (carbon) is balanced.

Looking at the next atom (hydrogen), the right-hand side has two atoms, while the left-hand side has four. To balance the hydrogens, 2 goes in front of the  $\text{H}_2\text{O}$ , which yields:



Inspection of the last atom to be balanced (oxygen) shows that the right-hand side has four atoms, while the left-hand side has two. It can be balanced by putting a 2 before  $\text{O}_2$ , giving the balanced equation:



This equation does not have any coefficients in front of  $\text{CH}_4$  and  $\text{CO}_2$ , since a coefficient of 1 is dropped.

## IONIC EQUATIONS

An ionic equation is a chemical equation in which electrolytes are written as dissociated ions. Ionic equations are used for single and double-displacement reactions that occur in aqueous solutions. For example in the following precipitation reaction:



the full ionic equation is:



In this reaction, the  $\text{Ca}^{2+}$  and the  $\text{NO}_3^-$  ions remain in solution and are not part of the reaction. That is, these ions are identical on both the reactant and product side of the chemical equation. Because such ions do not participate in the reaction, they are called spectator ions. A net ionic equation is the full ionic equation from which the spectator ions have been removed. The net ionic equation of the preceding reaction is:



or, in reduced balanced form,



In a neutralization or acid-base reaction, the net ionic equation will usually be:

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**John McMurry, Susan McMurry**

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1 mesin motor jadi untuk bagian motor yang pertama ialah mesin motor pada bagian ini memang memiliki peran sangat penting sekali didalam mesin tersebut terdapat cukup banyak komponen yang tersedia seperti piston silinder ring seher cap

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komponen mesin motor mesin motor sebenarnya dibedakan menjadi dua yaitu mesin 2 tak dan mesin 4 tak perbedaannya adalah pada mekanisme pembakaran mesin untuk menghasilkan tenaganya lantas apa saja komponen mesin motor pada umumnya 1 head silinder

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motor parçalarını sabit motor parçaları ve hareketli motor parçaları olarak iki temel kısımda inceleyebiliriz sabit motor parçaları motor bloğu silindir kapağı üst kapak külbütor kapağı emme manifoldu egzoz manifoldu karter hareketli motor parçaları piston biyel kolu krank mili eksantrik kam mili

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kosakata nama bagian sepeda motor dalam bahasa inggris dan tahukah adjarian apa saja bagian yang ada pada sepeda motor salah satu contoh bagian sepeda motor adalah lampu sein kanan dan kiri nah kali ini kita akan mempelajari kosakata nama bagian sepeda motor dalam bahasa inggris kosakata nama bagian sepeda motor dalam bahasa inggris1

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dikutip dari laman resmi smk negeri 2 tangerang komponen utama teknik dasar motor terdiri dari beberapa komponen dan terdiri atas beberapa bagian antara lain bagian rangka serta bagian bagian lainnya yang digabung menjadi satu agar menjadi sebuah sepeda motor 1 sistem mesin 2 sistem kelistrikan 3 rangka chassis

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daftar isi show komponen sepeda motor dan perannya a bagian mesin b bagian rangka sepeda motor c bagian kelistrikan komponen sepeda motor dan perannya secara garis besar komponen pada sepeda motor dibagi menjadi 3 bagian yaitu bagian rangka kelistrikan dan mesin

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bu yazımızda araba motor parçaları isimleri ve görevleri nelerdir motorun kısımları nelerdir arabanın ön takım parçaları nelerdir araba moturunda bulunan parçaların görevleri yapısı ve çalışma şekilleri nasıldır vb konularda detaylı bilgiye aşağıdaki yazımızdan ulaşabilirsiniz

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nama bagian bagian motor antara lain sein lampu depan garpu depan spakbor depan ban suspensi depan shockbreaker

setang stang kaca spion lubang kunci kontak tangki bensin jok lampu rem sepakbor belakang velg knalpot suspensi belakang shockbreaker skok mesin frame saya yakin semua sudah pada tahu

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steering rangka komponen mesin sepeda motor serta fungsinya cylinder head crankcase cylinder block piston dan ring piston bearing kruk as crankshaft valve valve spring dan rocker arm flywheel bantalan aksial dan dudukan katup poros bubungan dan pen piston push rod dan valve lifter bagian bagian motor serta fungsinya

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